Fact Sheet

US Army Engineer
Research and Development Center
Waterways Experiment Station

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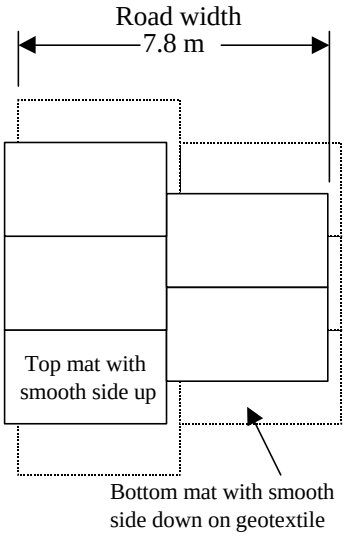
Public Affairs Office Ž 3909 Halls Ferry Road Ž Vicksburg, MS 39180-6199 Ž (601) 634-2504 Ž http://www.wes.army.mil

Expedient Road Construction over Mud Using Uni-Mat



Purpose: To provide information on road construction over mud using Uni-Mat.

Background: Uni-Mat roads consist of two layers of interlocking wooden mat panels. A 300-m-long two lane road (7.8 m wide) can be installed in 4 to 8 hours (depending upon using one or two work crews). The completed road will support over 5000 passes of heavy-load military truck traffic when placed over mud as weak as CBR 0.5. A geotextile is placed under the mat roadway to keep mud from coming up through the mat and causing a slick surface.

Mat Description: Dimension: 2.44 m by 4.27 m by approx. 100 mm
Weight: 635 kg
Shipping volume: 1.04 m^3
Price: $276.50 per panel
NSN 568-01-413-6226

Facts: The US Army Engineer Waterways Experiment Station (WES) is fully equipped and staffed to develop new expedient pavement construction technologies for any region of the world. Examples of improved construction guidance for roads over wet soils include work with Uni-Mat (interlocking wooden mat panels), geotextiles, and geogrids. Improved construction methods for pavements over beach or desert sands have included sand-grid (geocell) confinement, new expedient matting systems, and the newly developed sand-fiber stabilization technology.

Point of Contact: For technical assistance regarding Uni-Mat or other expedient pavement construction techniques, contact Steve Webster or Jeb Tingle at (601) 634-2282 or 2467or e-mail at webstes/ tinglej1@wes.army.mil. General information on WES is available on the web site at http://www.wes.army.mil.